

PO Job Risk Assessment

Name(s) of Risk Team Members: C.Woody, S.Stoll, D.Schlyer, P.Vaska	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Dispersible Radioactive Material Use Job Number or Job Identifier: PO-JRA-026	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: The transport, use and disposal of dispersible radioactive materials.	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedure List (Optional): Applicable Standing Operating Procedures	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple
Date: January 25, 2006 Rev. #: 0						
Stressors (if applicable, please list all):		Reason for Revision (if applicable):			Comments:	

				Before Additional Controls								After Additional Controls					
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction	
Transport of dispersible materials from the PET Facility (Building 906)	Spillage of dispersible radioactive material	All materials are checked for leaks and/or contamination before leaving the PET facility, and are hand carried in a shielded pig to Physics. Radiological Technician is notified and area is posted for dispersible use before material is brought over.	N	1	3	1	2	6									

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Remove material from transport container and install in experiment	Spillage, Radiation exposure, contamination	Materials are used in a double containment area. PPEs (gloves, labcoat, safety glasses) are worn during these operation,. Hands and feet are frisked often	N	1	3	1	3	9								
Perform experiment using radioactive material.	Radiation exposure, contamination	PPEs (gloves, labcoat, safety glasses) are worn during these operation,. Hands and feet are frisked often	N	1	3	1	2	6								
Probe sensitivity measurement: Place vial of solution in test fixture inside shielded light box. Lower probe into solution and measure count rates. Raise and rinse probe after measurement	Radiation exposure, contamination	PPEs are worn during these operations, hands and feet are frisked often	N	1	3	1	2	6								

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Detector calibration: Place sealed vial or "phantom" containing activity solution in detector, inside shielded light box or shielded on bench top, measure count rates.	Radiation exposure, contamination	PPEs are worn during these operations, hands and feet are frisked often. Phantoms are leak checked before filling and after sealing.	N	1	3	1	2	6								
Blood Flow simulation Measurement: Place vial w/ activity into pig inside shielded light box or shielded on bench top. Insert tube through cap. Activate pump, measure count rates.	Radiation exposure, contamination	PPEs are worn during these operations, hands and feet are frisked often. Connections and apparatus are leak checked with water before using with radioactive material.	N	2	2	1	2	8								
Remove material from apparatus or allow to decay in place	Radiation exposure, contamination	PPEs are worn during these operations, hands and feet are frisked often	N	1	3	1	2	6								

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Further Description of Controls Added to Reduce Risk:																
*Risk:	0 to 20 Negligible	21 to 40 Acceptable	41 to 60 Moderate						61 to 80 Substantial						81 or greater Intolerable	